

I. Amendments to the Claims

This listing of claims replaces without prejudice all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An expandable endovascular prosthesis comprising:
 - a body having a proximal end and a distal end;
 - a tubular first expandable portion disposed between the proximal end and the distal end of said body, the tubular first expandable portion being expandable from a first, unexpanded state to a first, expanded state with a radially outward force thereon to urge the tubular first expandable portion against a vascular lumen;
 - ~~a second~~ a cantilevered, expandable leaf portion attached to the tubular first expandable portion, the ~~second~~ expandable leaf portion being expandable from a second, unexpanded state to a second expanded state upon expansion of the tubular first expandable portion, the ~~second~~ expandable leaf portion covering a greater surface area in the second expanded state than in the second unexpanded state; and
 - a covering material having a first surface area disposed over a second surface area of the ~~second~~ expandable leaf portion, the first surface area of said covering being greater in the second unexpanded state than the second surface area of the

expandable leaf portion in the second unexpanded state of the ~~second expandable~~
~~portion~~.

2. (Currently Amended) The prosthesis defined in claim 1, wherein the
~~second~~ expandable leaf portion comprises a porous surface.

3. (Original) The prosthesis defined in claim 2, wherein the covering
layer covers at least a portion of the porous surface.

4. (Currently Amended) The prosthesis defined in claim 1, wherein the
covering layer comprises an elastic material capable of stretching upon expansion of the
~~second~~ expandable leaf portion ~~expandable~~ portion.

5. (Original) The prosthesis defined in claim 2, wherein the porous
surface is defined by a plurality of interconnected struts.

6. (Original) The prosthesis defined in claim 5, wherein the plurality of
interconnected struts comprises a plurality of first longitudinals.

7. (Original) The prosthesis defined in claim 6, wherein the plurality of
first longitudinals are connected to one another by a plurality of second struts disposed at
an acute angle with respect to the first longitudinals.

8. (Currently Amended) The prosthesis defined in claim 6, wherein at least some of the longitudinals are connected to a first edge of the tubular ~~first~~ expandable portion.

9. (Original) The prosthesis defined in claim 8, wherein the first edge comprises a circumferentially meandering pattern.

10. (Original) The prosthesis defined in claim 9, wherein the circumferentially meandering pattern comprises a plurality of apices.

11. (Original) The prosthesis defined in claim 10, wherein the plurality of apices comprise a first set of convex apices and a second set of concave apices.

12. (Original) The prosthesis defined in claim 11, wherein the convex apices and concave apices alternate with respect to one another.

13. (Original) The prosthesis defined in claim 11, wherein at least two longitudinals are connected to an adjacent pair comprising a convex apex and concave apex.

14. (Currently Amended) The prosthesis defined in claim 5, wherein the

plurality of interconnected struts further comprises a plurality of second longitudinals which are unconnected to the tubular ~~first~~ expandable portion.

15. (Currently Amended) The prosthesis defined in claim 1, wherein the tubular ~~first~~ expandable portion ~~is~~ comprises a tubular porous surface.

16. (Currently Amended) The prosthesis defined in claim 1, wherein the ~~second~~ expandable leaf portion is independently moveable with respect to the tubular ~~first~~ expandable portion.

17. (Currently Amended) The prosthesis defined in claim 1, wherein the body comprises a ~~third~~ further expandable portion connected to the tubular ~~first~~ expandable portion, which further expandable portion is expandable from a ~~first~~, third unexpanded state to a ~~second~~ third, expanded state with a radially outward force thereon.

18. (Currently Amended) The prosthesis defined in claim 17, wherein the tubular ~~first~~ expandable portion and the ~~third~~ further expandable portion are connected to one another by at least one strut.

19. (Currently Amended) The prosthesis defined in claim 1, wherein the tubular ~~first~~ expandable portion comprises a porous surface.

20. (Currently Amended) The prosthesis defined in claim 17, wherein the ~~third~~ further expandable portion comprises a porous surface.

21. (Currently Amended) The prosthesis defined in claim 17, wherein the tubular ~~first~~ expandable portion and the ~~third~~ further expandable portion each comprise a porous surface.

22. (Currently Amended) The prosthesis defined in claim 1, wherein the tubular ~~first~~ expandable portion and the ~~second~~ expandable leaf portion are integrally formed.

23. (Currently Amended) The prosthesis defined in claim 17, wherein the tubular ~~first~~ expandable portion, the ~~second~~ expandable leaf portion and ~~third~~ further expandable portion are integrally formed.

24. (Currently Amended) The prosthesis defined in claim 1, wherein the body comprises a substantially cylindrical tubular shape.

25. (Original) The prosthesis defined in claim 1, wherein the body comprises a substantially porous surface.

26. (Currently Amended) The prosthesis defined in claim 1, wherein the

body ~~is constructed from~~ comprises a plastically deformable material.

27. (Currently Amended) The prosthesis defined in claim 1, wherein the body ~~is constructed from~~ comprises a self-expanding material.

28. (Currently Amended) The prosthesis defined in claim 1, wherein the body ~~is constructed from~~ comprises a biodegradable material.

29. (Currently Amended) A method for endovascular blocking of an aneurysmal opening with a prosthesis comprising: a body having a proximal end and a distal end, a tubular first expandable portion disposed between the proximal end and the distal end of said body, the tubular first expandable portion being expandable from a first, unexpanded state to a first, expanded state with a radially outward force thereon to urge the tubular first expandable portion against a vascular lumen, ~~a second~~ a cantilevered, expandable leaf portion attached to the tubular first expandable portion, the ~~second~~ expandable leaf portion being expandable from a second, unexpanded state to a second expanded state upon expansion of the tubular first expandable portion, the ~~second~~ expandable leaf portion covering a greater surface area in the second expanded state than in the second unexpanded state, and a covering material having a first surface area disposed over a second surface area of the ~~second~~ expandable leaf portion, the first surface area of said covering being greater in the second unexpanded state than the second surface area of the expandable leaf portion in the second unexpanded state ~~of the~~

~~second expandable portion~~, the method comprising the steps of:

disposing the prosthesis on a catheter;

inserting the prosthesis and catheter within a body passageway by
catheterization of the body passageway;

translating the prosthesis and catheter to a target vascular lumen at which
the aneurysm opening is located;

exerting a radially outward expansive force on the tubular ~~first~~ expandable
portion such that the tubular ~~first~~ expandable portion is urged against the target body
passageway;

causing expansion of the tubular ~~first~~ expandable portion to expand the
~~second~~ expandable leaf portion to increase the first surface area; and

urging the ~~second~~ expandable leaf portion against the aneurysmal opening
thereby blocking the aneurysmal opening.

30. (Currently Amended) A method for producing a prosthesis comprising: a
body having a proximal end and a distal end, a ~~first~~ tubular expandable portion disposed between
the proximal end and the distal end, the ~~first~~ tubular expandable portion being expandable from a
first, unexpanded state to a first, expanded state with a radially outward force thereon to urge the
first expandable portion against a vascular lumen, a ~~second~~ a cantilevered, expandable leaf
portion attached to the ~~first~~ tubular expandable portion; the ~~second~~ expandable leaf portion being
expandable from a second, unexpanded state to a second, expanded state upon expansion of the
~~first~~ tubular expandable portion, the ~~second~~ expandable leaf portion covering a greater surface

area in the second expanded state than in the second unexpanded state; and a covering material having a first surface area disposed over a second surface area of the ~~second~~ expandable leaf portion, the first surface area of the covering being greater than the second surface area of the leaf portion in the second unexpanded state ~~of the second expandable portion~~, the method comprising the steps of:

- (i) expanding the ~~second~~ expandable leaf portion;
- (ii) affixing the covering material to the ~~second~~ expandable leaf portion; and
- (iii) compressing the ~~second~~ expandable leaf portion.